

Name of Work : IMPROVEMENT OF CC ROADS, DRAINS AND OTHER WORKS AT GOWDIKE HOOLA (JODIDHAR NARASIMHAIAH LAYOUT) IN WARD NO 14

DASARAHALLI DIVISION

T DASARAHALLI SUB DIVISION

Estimate Cost:-100.00 Lakhs,

JOB CODE: 01-4-20-000112

Head of Account:- P-1878 18per (BHAGYAJYOTHI,SOORU/NEERU YOJANE AND GENERAL)(54 LAKHS/NEW WARDS)

Agency:-M/S TECHNICAL MANAGER(WEST),K.R.I.D.L, NO280,59TH CROSS,17TH MAIN ROAD,3RD Y BLOCK RAJAJI NAGARA,

Agreement No:- EE/DD/AGR/02/2020-21

Date-13-04-2020

DETAILED MEASUREMENTS

Recorded on:- 13/04/20

Pre measurements

BOQ Item No	Description Of Item of work	Nos	Measurements			Sub Qty	Total Qty	Unit
			Length	Breath	Depth			
1	3	4 5	6	7	8	9	10	11
1	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials separately complete as per specifications. MORTH Specification No. 202							
	ROAD FORMATION							
	9TH MAIN ROAD	1	19.00	4.15	+	4.60	0.150	12.469
				2				
		1	30.00	4.60	+	3.70	0.150	18.675
				2				
		1	30.00	3.70	+	3.70	0.150	16.650
				2				
		1	30.00	3.70	+	3.50	0.150	16.200
				2				
		1	27.60	3.00	+	3.30	0.150	13.041
				2				
	9TH MAIN ROAD-1ST CROSS R/S	1	42.00	2.60	+	2.00	0.150	14.490
				2				
	9TH MAIN ROAD-2ND CROSS R/S	1	39.00	2.50	+	2.30	0.150	14.040
				2				
	9TH MAIN ROAD-3RD CROSS R/S	1	36.00	2.80	+	2.90	0.150	15.390
				2				
	9TH MAIN ROAD-4TH CROSS R/S	1	40.00	3.50	+	2.95	0.150	19.350
				2				
	9TH MAIN ROAD-5TH CROSS R/S	1	43.00	2.45	+	2.50	0.150	15.964
				2				
	9TH MAIN ROAD-6TH CROSS R/S	1	38.00	2.90	+	2.00	0.150	13.965
				2				
	LINK ROAD-1	1	30.00	4.20	+	4.80	0.150	20.250
				2				
		1	30.00	4.80	+	3.90	0.150	19.575
				2				
		1	38.00	3.90	+	4.15	0.150	22.943

CAP

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

ಮಾನ್ಯ ಮಂತ್ರಿಗಳ ಅಧೀನದಲ್ಲಿ
ಇ. ಮಹದೇವ್, ಎಂ. ಕೆ. ಎಸ್.
ಮಾನ್ಯರಾದ, ಎಂ. ಎಂ. ಎ.
ಬೆಂಗಳೂರು-560073.

BOQ Item No	Description Of Item of work	Nos		Measurements					Sub Qty	Total Qty	Unit	
				Length	Breath			Depth				
1	3	4	5	6	7			8	9	10	11	
					2							
	LINK ROAD-2	1		30.00	4.40	+	4.45	0.150	19.913			
					2							
		1		30.00	4.45	+	4.45	0.150	20.025			
					2							
		1		34.00	4.45	+	4.45	0.150	22.695			
					2							
	LINK ROAD-3	1		33.50	5.40	+	5.20	0.150	26.633			
					2							
	DEDUCT LENGTH CUT BY BWSSB											
		-1		600.10	0.20			0.15	-18.003			
				Total Qty					304.263	304.263	Cum	
2	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling Stone Masonry.B. Rubble stone masonry in cement mortar. MORTH Specification No. 202											
	9TH MAIN DRAIN -RIGHT SIDE											
	9TH MAIN DRAIN -1	1	2	18.80	0.15			0.75	4.230			
		1	1	18.80	0.90			0.10	1.692			
	9TH MAIN DRAIN -2	1	2	20.00	0.15			0.75	4.500			
		1	1	20.00	0.90			0.10	1.800			
	9TH MAIN DRAIN -3	1	2	20.00	0.15			0.75	4.500			
		1	1	20.00	0.90			0.10	1.800			
	9TH MAIN DRAIN -4	1	2	18.60	0.15			0.75	4.185			
		1	1	20.00	0.90			0.10	1.800			
	9TH MAIN DRAIN -5	1	2	19.00	0.15			0.75	4.275			
		1	1	19.00	0.90			0.10	1.710			
	9TH MAIN DRAIN -6	1	2	25.00	0.15			0.75	5.625			
		1	1	25.00	0.90			0.10	2.250			
	9TH MAIN DRAIN -LEFT SIDE											
	9TH MAIN DRAIN -1	1	2	35.00	0.15			0.75	7.875			
		1	1	35.00	0.90			0.10	3.150			
	9TH MAIN DRAIN -2	1	2	18.00	0.15			0.75	4.050			
		1	1	18.00	0.90			0.10	1.620			
	9TH MAIN DRAIN -3	1	2	19.00	0.15			0.75	4.275			
		1	1	19.00	0.90			0.10	1.710			
	9TH MAIN DRAIN -4	1	2	17.00	0.15			0.75	3.825			
		1	1	17.00	0.90			0.10	1.530			
	9TH MAIN DRAIN -5	1	2	21.00	0.15			0.75	4.725			
		1	1	21.00	0.90			0.10	1.890			
	9TH MAIN DRAIN -1ST CROSS											
	RS	2	1	42.00	0.15			0.75	9.450			
		1	1	42.00	0.90			0.10	3.780			
	LS	2	1	42.00	0.15			0.75	9.450			
		1	1	42.00	0.90			0.10	3.780			
	9TH MAIN DRAIN -2ND CROSS											
	RS	2	1	39.00	0.15			0.75	8.775			

CPD

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

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ಬಿ ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂದಿ, ಜಿ.ಬಿ.ಎಂ.ಸಿ.
ಬೆಂಗಳೂರು 560011

BOQ Item No	Description Of Item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
		4	5	Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11
		1	1	39.00	0.90	0.10	3.510		
	LS	2	1	39.00	0.15	0.75	8.775		
		1	1	39.00	0.90	0.10	3.510		
9TH MAIN DRAIN -3RD CROSS									
	RS	2	1	36.00	0.15	0.75	8.100		
		1	1	36.00	0.90	0.10	3.240		
	LS	2	1	36.00	0.15	0.75	8.100		
		1	1	36.00	0.90	0.10	3.240		
9TH MAIN DRAIN -4TH CROSS									
	RS	2	1	40.00	0.15	0.75	9.000		
		1	1	40.00	0.90	0.10	3.600		
9TH MAIN DRAIN -5TH CROSS									
	RS	2	1	43.00	0.15	0.75	9.675		
		1	1	43.00	0.90	0.10	3.870		
	LS	2	1	43.00	0.15	0.75	9.675		
		1	1	43.00	0.90	0.10	3.870		
9TH MAIN DRAIN -6TH CROSS									
	RS	2	1	38.00	0.15	0.75	8.550		
		1	1	38.00	0.90	0.10	3.420		
	LS	2	1	38.00	0.15	0.75	8.550		
		1	1	38.00	0.90	0.10	3.420		
Total Qty							210.357	210.357	Cum

Assistant Engineer-
14

18/04/20

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Assistant Executive Engineer
T. Dasarahalli Sub-Division
BBMP

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ಬಾಗಲಗುಂಟೆ, ಬಿ.ಬಿ.ಎಂ.ಸಿ
ಬೆಂಗಳೂರು 560073.

BOQ Item No	Description Of Item of work	Nos		Measurements				Sub Qty	Total Qty	Unit
				Length	Breath		Depth			
1	3	4	5	6	7		8	9	10	11

measurement continued on:- 23/4/20

3	Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3									
	ROAD FORMATION									
	9TH MAIN ROAD	1		19.00	4.15	+	4.60	0.450	37.406	
					2					
		1		30.00	4.60	+	3.70	0.450	56.025	
					2					
		1		30.00	3.70	+	3.70	0.450	49.950	
					2					
		1		30.00	3.70	+	3.50	0.450	48.600	
					2					
		1		27.60	3.00	+	3.30	0.450	39.123	
					2					
	9TH MAIN ROAD-1ST CROSS R/S	1		42.00	2.60	+	2.00	0.450	43.470	
					2					
	9TH MAIN ROAD-2ND CROSS R/S	1		39.00	2.50	+	2.30	0.450	42.120	
					2					
	9TH MAIN ROAD-3RD CROSS R/S	1		36.00	2.80	+	2.90	0.450	46.170	
					2					
	9TH MAIN ROAD-4TH CROSS R/S	1		40.00	3.50	+	2.95	0.450	58.050	
					2					
	9TH MAIN ROAD-5TH CROSS R/S	1		43.00	2.45	+	2.50	0.450	47.891	
					2					
	9TH MAIN ROAD-6TH CROSS R/S	1		38.00	2.90	+	2.00	0.450	41.895	
					2					
	LINK ROAD-1	1		30.00	4.20	+	4.80	0.450	60.750	
					2					
		1		30.00	4.80	+	3.90	0.450	58.725	
					2					
		1		38.00	3.90	+	4.15	0.450	68.828	
					2					
	LINK ROAD-2	1		30.00	4.40	+	4.45	0.450	59.738	
					2					
		1		30.00	4.45	+	4.45	0.450	60.075	
					2					
		1		34.00	4.45	+	4.45	0.450	68.085	
					2					
	LINK ROAD-3	1		33.50	5.40	+	5.20	0.450	79.898	
					2					
	9TH MAIN DRAIN -RIGHT SIDE									
	9TH MAIN DRAIN -1	1	1	18.80	1.10		0.45	9.306		
	9TH MAIN DRAIN -2	1	1	20.00	1.10		0.45	9.900		
	9TH MAIN DRAIN -3	1	1	20.00	1.10		0.45	9.900		


 EXECUTIVE ENGINEER-4
 KRIDL, BBMP DIVISON
 BENGALURU-560 010

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 ಬೆಂಗಳೂರು-೫೬೦೦೨೦

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BOQ Item No	Description Of Item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
				Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11
	9TH MAIN DRAIN -4	1	1	18.60	1.10	0.45	9.207		
	9TH MAIN DRAIN -5	1	1	18.60	1.10	0.45	9.207		
	9TH MAIN DRAIN -6	1	1	19.00	1.10	0.45	9.405		
	9TH MAIN DRAIN -LEFT SIDE								
	9TH MAIN DRAIN -1	1	1	35.00	1.10	0.45	17.325		
	9TH MAIN DRAIN -2	1	1	18.00	1.10	0.45	8.910		
	9TH MAIN DRAIN -3	1	1	19.00	1.10	0.45	9.405		
	9TH MAIN DRAIN -4	1	1	17.00	1.10	0.45	8.415		
	9TH MAIN DRAIN -5	1	1	21.00	1.10	0.45	10.395		
	9TH MAIN DRAIN -1ST CROSS								
	RS	1	1	42.00	1.10	0.45	20.790		
	LS	1	1	42.00	1.10	0.45	20.790		
	9TH MAIN DRAIN -2ND CROSS								
	RS	1	1	39.00	1.10	0.45	19.305		
	LS	1	1	39.00	1.10	0.45	19.305		
	9TH MAIN DRAIN -3RD CROSS								
	RS	1	1	36.00	1.10	0.45	17.820		
	LS	1	1	36.00	1.10	0.45	17.820		
	9TH MAIN DRAIN -4TH CROSS								
	RS	1	1	40.00	1.10	0.45	19.800		
	9TH MAIN DRAIN -5TH CROSS								
	RS	1	1	43.00	1.10	0.45	21.285		
	LS	1	1	43.00	1.10	0.45	21.285		
	9TH MAIN DRAIN -6TH CROSS								
	RS	1	1	38.00	1.10	0.45	18.810		
	LS	1	1	38.00	1.10	0.45	18.810		
	DEDUCTION DUE TO I NO 02 P NO-03							-210.357	
	Total Qty							1083.636	1083.636 Cum
4	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification								
	9TH MAIN DRAIN -RIGHT SIDE								
	9TH MAIN DRAIN -1	1	1	18.80	1.10	0.15	3.102		
	9TH MAIN DRAIN -2	1	1	20.00	1.10	0.15	3.300		
	9TH MAIN DRAIN -3	1	1	20.00	1.10	0.15	3.300		
	9TH MAIN DRAIN -4	1	1	18.60	1.10	0.15	3.069		
	9TH MAIN DRAIN -5	1	1	19.00	1.10	0.15	3.135		
	9TH MAIN DRAIN -6	1	1	25.00	1.10	0.15	4.125		
	9TH MAIN DRAIN -LEFT SIDE								
	9TH MAIN DRAIN -1	1	1	35.00	1.10	0.15	5.775		
	9TH MAIN DRAIN -2	1	1	18.00	1.10	0.15	2.970		
	9TH MAIN DRAIN -3	1	1	19.00	1.10	0.15	3.135		
	9TH MAIN DRAIN -4	1	1	17.00	1.10	0.15	2.805		
	9TH MAIN DRAIN -5	1	1	21.00	1.10	0.15	3.465		
	9TH MAIN DRAIN -1ST CROSS								
	RS	1	1	42.00	1.10	0.15	6.930		

CRP

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

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ಅ. ಕಾರ್ಯದರ್ಶಿ ಕಛೇರಿ
ಬಾಂಗಲೂರು, ಮಹಾನಗರ
ಪಿಂಚಣಿ ಸಂಖ್ಯೆ 560

BOQ Item No	Description Of Item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
				Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11
	LS	1	1	42.00	1.10	0.15	6.930		
	9TH MAIN DRAIN -2ND CROSS								
	RS	1	1	39.00	1.10	0.15	6.435		
	LS	1	1	39.00	1.10	0.15	6.435		
	9TH MAIN DRAIN -3RD CROSS								
	RS	1	1	36.00	1.10	0.15	5.940		
	LS	1	1	36.00	1.10	0.15	5.940		
	9TH MAIN DRAIN -4TH CROSS								
	RS	1	1	40.00	1.10	0.15	6.600		
	9TH MAIN DRAIN -5TH CROSS								
	RS	1	1	43.00	1.10	0.15	7.095		
	LS	1	1	43.00	1.10	0.15	7.095		
	9TH MAIN DRAIN -6TH CROSS								
	RS	1	1	38.00	1.10	0.15	6.270		
	LS	1	1	38.00	1.10	0.15	6.270		
				Total Qty			110.121	110.121	Cum
15	Cost of Haulage Excluding Loading and Unloading MORTH -100/ Chapter 1 Case-I : Surface Road ITEM no. 17.4 , KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specification								
	ADD INO-01 P NO: 02						304.263		
	ADD INO-02 P NO: 3						210.357		
	ADD INO-03 P NO: 05						1083.636		
				Total Qty			1598.256	1598.256	Cum

Assistant Engineer-

14

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

Assistant Executive Engineer

T.Dasarahalli Sub-Division

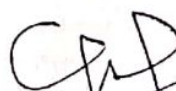
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ಬೆಂಗಳೂರು-560073.

BOQ Item No	Description Of Item of work	Nos		Measurements			Sub Qty	Total Qty	Unit	
				Length	Breath	Depth				
1	3	4	5	6	7	8	9	10	11	
measurement continued on:- 4/5/20										
5	Providing and laying plain / reinforced cement concrete for side drain using M20 nominal mix concrete with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregates @ 0.43cum, with super plasticisers @ 3 liters conforming to IS 9103-1999 reafirmed-2008 at machine mixed, well compacted for walls and bottom including centering,shuttering, cost of materials,HOM of machinery, curing etc complete excluding cost of steel as per MORTH Specification No. 1500,1700,2200 including cost of materials, labour, HOM complete as per specifications wall & botton thickness 15cm									
9TH MAIN DRAIN -RIGHT SIDE										
	9TH MAIN DRAIN -1	1	1	18.80	0.75	0.15	2.115			
	9TH MAIN DRAIN -2	1	1	20.00	0.75	0.15	2.250			
	9TH MAIN DRAIN -3	1	1	20.00	0.75	0.15	2.250			
	9TH MAIN DRAIN -4	1	1	18.60	0.75	0.15	2.093			
	9TH MAIN DRAIN -5	1	1	19.00	0.60	0.15	1.710			
	9TH MAIN DRAIN -6	1	1	25.00	0.60	0.15	2.250			
9TH MAIN DRAIN -LEFT SIDE										
	9TH MAIN DRAIN -1	1	1	35.00	0.75	0.15	3.938			
	9TH MAIN DRAIN -2	1	1	18.00	0.90	0.15	2.430			
	9TH MAIN DRAIN -3	1	1	19.00	0.90	0.15	2.565			
	9TH MAIN DRAIN -4	1	1	17.00	0.90	0.15	2.295			
	9TH MAIN DRAIN -5	1	1	21.00	0.90	0.15	2.835			
9TH MAIN DRAIN -1ST CROSS										
	RS	1	1	42.00	0.75	0.15	4.725			
	LS	1	1	42.00	0.90	0.15	5.670			
9TH MAIN DRAIN -2ND CROSS										
	RS	1	1	39.00	0.75	0.15	4.388			
	LS	1	1	39.00	0.75	0.15	4.388			
9TH MAIN DRAIN -3RD CROSS										
	RS	1	1	36.00	0.75	0.15	4.050			
	LS	1	1	36.00	0.75	0.15	4.050			
9TH MAIN DRAIN -4TH CROSS										
	RS	1	1	40.00	0.75	0.15	4.500			
9TH MAIN DRAIN -5TH CROSS										
	RS	1	1	43.00	0.75	0.15	4.838			
	LS	1	1	43.00	0.75	0.15	4.838			
9TH MAIN DRAIN -6TH CROSS										
	RS	1	1	38.00	0.75	0.15	4.275			
	LS	1	1	38.00	0.45	0.15	2.565			
Total Qty							75.015	75.015	Cum	


 Assistant Engineer-
 14


 EXECUTIVE ENGINEER-4
 KRIDL, BBMP DIVISION
 BENGALURU-560 010


 Assistant Executive Engineer
 T. Dasarahalli Sub- Division
 BBMP
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 ಬೆಂಗಳೂರು-560073.

BOQ Item No	Description Of Item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
				Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11

measurement continued on:- 6 | 5 | 20

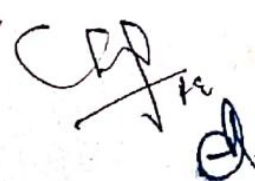
6	KSRRB M2200-6. Supplying, fitting and placing TMT bar reinforcement in sub-structure complete as per drawing and Technical Specifications complete as per specifications MORTH Specification No.1600 & 2200 -do- TMT Bars Fe 500 (Pno218/28.8.2)								
SL NO	PARTICULARS	NO	LENGTH	CONSTANT	QTY				
	9TH MAIN DRAIN -RIGHT SIDE								
	9TH MAIN DRAIN -1								
1	VERTICAL U BAR	140	2.11	0.620	183.148				
2	STRAIGHT BAR	19	18.80	0.620	219.133				
	9TH MAIN DRAIN -2								
1	VERTICAL U BAR	165	2.11	0.620	215.853				
2	STRAIGHT BAR	20	20.00	0.620	248.000				
	9TH MAIN DRAIN -3								
1	VERTICAL U BAR	165	2.11	0.620	215.853				
2	STRAIGHT BAR	20	20.00	0.620	248.000				
	9TH MAIN DRAIN -4								
1	VERTICAL U BAR	137	2.11	0.620	179.223				
2	STRAIGHT BAR	19	18.60	0.620	216.802				
	9TH MAIN DRAIN -5								
1	VERTICAL U BAR	142	2.11	0.620	185.764				
2	STRAIGHT BAR	19	19.00	0.620	221.464				
	9TH MAIN DRAIN -6								
1	VERTICAL U BAR	170	2.11	0.620	222.394				
2	STRAIGHT BAR	19	25.00	0.620	291.400				
	9TH MAIN DRAIN -LIFT SIDE								
	9TH MAIN DRAIN -1								
1	VERTICAL U BAR	233	2.11	0.620	304.811				
2	STRAIGHT BAR	19	35.00	0.620	407.960				
	9TH MAIN DRAIN -2								
1	VERTICAL U BAR	120	2.11	0.620	156.984				
2	STRAIGHT BAR	20	18.00	0.620	223.200				
	9TH MAIN DRAIN -3								
1	VERTICAL U BAR	126	2.11	0.620	164.833				
2	STRAIGHT BAR	20	19.00	0.620	235.600				
	9TH MAIN DRAIN -4								
1	VERTICAL U BAR	113	2.11	0.620	147.827				
2	STRAIGHT BAR	19	17.00	0.620	198.152				

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EXECUTIVE ENGINEER-4
 KRIDL, BBMP DIVISION
 BENGALURU-560 010

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 ಬೆಂಗಳೂರು-560073.

BOQ Item No	Description Of Item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
				Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11
	9TH MAIN DRAIN -5								
1	VERTICAL U BAR			140	2.11	0.620	183.148		
2	STRAIGHT BAR			19	21.00	0.620	244.776		
	9TH MAIN DRAIN -6								
1	VERTICAL U BAR			450	2.11	0.620	588.690		
2	STRAIGHT BAR			19	43.00	0.620	501.208		
	9TH MAIN DRAIN -1ST CROSS-RS								
1	VERTICAL U BAR			440	1.95	0.620	531.960		
2	STRAIGHT BAR			19	42.00	0.620	489.552		
	9TH MAIN DRAIN -1ST CROSS-LS								
1	VERTICAL U BAR			380	1.95	0.620	459.420		
2	STRAIGHT BAR			19	42.00	0.620	489.552		
	9TH MAIN DRAIN -2ND CROSS-RS								
1	VERTICAL U BAR			370	1.95	0.620	447.330		
2	STRAIGHT BAR			19	39.00	0.620	454.584		
	9TH MAIN DRAIN -2ND CROSS-LS								
1	VERTICAL U BAR			320	1.95	0.620	386.880		
2	STRAIGHT BAR			19	39.00	0.620	454.584		
	9TH MAIN DRAIN -3RD CROSS-RS								
1	VERTICAL U BAR			320	1.95	0.620	386.880		
2	STRAIGHT BAR			19	36.00	0.620	419.616		
	9TH MAIN DRAIN -3RD CROSS-LS								
1	VERTICAL U BAR			315	1.95	0.620	380.835		
2	STRAIGHT BAR			19	36.00	0.620	419.616		
	9TH MAIN DRAIN -4TH CROSS-RS								
1	VERTICAL U BAR			360	1.95	0.620	435.240		
2	STRAIGHT BAR			19	40.00	0.620	466.240		
	9TH MAIN DRAIN -5TH CROSS-RS								
1	VERTICAL U BAR			350	1.95	0.620	423.150		
2	STRAIGHT BAR			19	43.00	0.390	315.276		
	9TH MAIN DRAIN -5TH CROSS-LS								
1	VERTICAL U BAR			360	1.95	0.620	435.240		
2	STRAIGHT BAR			19	43.00	0.390	315.276		
	9TH MAIN DRAIN -6TH CROSS-RS								
1	VERTICAL U BAR			253	1.95	0.620	305.877		
2	STRAIGHT BAR			19	38.00	0.620	442.928		
	9TH MAIN DRAIN -6TH CROSS-LS								



 EXECUTIVE ENGINEER-4
 KRIDL, BEMP DIVISION
 BENGALURU-560 010

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 BENGALURU-560073

BOQ Item No	Description Of Item of work	Nos		Measurements			Sub Qty	Total Qty	Unit	
				Length	Breath					Depth
		1	3	4	5	6	7		8	9
1	VERTICAL U BAR			253	1.95	0.620	305.877			
2	STRAIGHT BAR			19	38.00	0.620	442.928			
	TOTAL QTY IN KGS						15213.064			
	TOTAL QTY IN TONNES						15.213			
TOTAL QTY IN TONNES							15.213	15.213	15.213	TONNE

Assistant Engineer-
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EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

Assistant Executive Engineer

T. Dasarahalli Sub- Division

BBMP

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ಬೆಂಗಳೂರು-560073.

BOQ Item No	Description Of item of work	Nos		Measurements			Sub Qty	Total Qty	Unit	
				Length	Breath	Depth				
1	3	4	5	6	7	8	9	10	11	
measurement continued on:- 14/5/20										
5	Providing and laying plain / reinforced cement concrete for side drain using M20 nominal mix concrete with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregates @ 0.43cum, with super plasticisers @ 3 liters conforming to is 9103-1999 reaffirmed-2008 at machine mixed, well compacted for walls and bottom including centering,shuttering, cost of materials,HOM of machinery, curing etc complete excluding cost of steel as per MORTH Specification No. 1500,1700,2200 including cost of materials, labour, HOM complete as per specifications wall & botton thickness 15cm									
SIDE WALLS										
9TH MAIN DRAIN -RIGHT SIDE										
9TH MAIN DRAIN -1		2	1	18.80	0.163	0.600	3.677			
9TH MAIN DRAIN -2		2	1	20.00	0.200	0.600	4.800			
9TH MAIN DRAIN -3		2	1	20.00	0.160	0.600	3.840			
9TH MAIN DRAIN -4		2	1	18.60	0.135	0.600	3.013			
9TH MAIN DRAIN -5		2	1	19.00	0.150	0.650	3.705			
9TH MAIN DRAIN -6		2	1	25.00	0.128	0.525	3.360			
9TH MAIN DRAIN -LEFT SIDE										
9TH MAIN DRAIN -1		2	1	35.00	0.150	0.600	6.300			
9TH MAIN DRAIN -2		2	1	18.00	0.150	0.600	3.240			
9TH MAIN DRAIN -3		2	1	19.00	0.173	0.600	3.944			
9TH MAIN DRAIN -4		2	1	17.00	0.175	0.663	3.945			
9TH MAIN DRAIN -5		2	1	21.00	0.175	0.600	4.410			
9TH MAIN DRAIN -1ST CROSS										
RS		2	1	42.00	0.150	0.600	7.560			
LS		2	1	42.00	0.188	0.600	9.475			
9TH MAIN DRAIN -2ND CROSS										
RS		2	1	39.00	0.130	0.775	7.859			
LS		2	1	39.00	0.188	0.600	8.798			
9TH MAIN DRAIN -3RD CROSS										
RS		2	1	36.00	0.100	0.725	5.220			
LS		2	1	36.00	0.110	0.650	5.148			
9TH MAIN DRAIN -4TH CROSS										
RS		2	1	36.00	0.150	0.875	9.450			
9TH MAIN DRAIN -5TH CROSS										
RS		2	1	43.00	0.163	0.525	7.359			
LS		2	1	43.00	0.118	0.525	5.328			
9TH MAIN DRAIN -6TH CROSS										
RS		2	1	38.00	0.100	0.500	3.800			
LS		2	1	38.00	0.100	0.450	3.420			
ADD QTY FROM I NO 5 PN07							75.015			
Total Qty							192.667	192.667	Cum	

Assistant Engineer-

14/5/20

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-550 010

Assistant Executive Engineer

Dasarahalli Sub-Division

BBMP

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BOQ Item No	Description Of Item of work	Nos		Measurements			Sub Qty	Total Qty	Unit	
				Length	Breath	Depth				
1	3	4	5	6	7	8	9	10	11	
measurement continued on:- 20/5/20										
7	Providing & fixing Precast RCC slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortar including from work lift charges, curing and concrete finished surface on both side									
	9TH MAIN DRAIN -RIGHT SIDE									
	9TH MAIN DRAIN -1	1	1	18.80	0.75		14.100			
	9TH MAIN DRAIN -2	1	1	20.00	0.75		15.000			
	9TH MAIN DRAIN -3	1	1	20.00	0.75		15.000			
	9TH MAIN DRAIN -4	1	1	18.60	0.75		13.950			
	9TH MAIN DRAIN -5	1	1	19.00	0.60		11.400			
	9TH MAIN DRAIN -6	1	1	25.00	0.60		15.000			
	9TH MAIN DRAIN -LEFT SIDE									
	9TH MAIN DRAIN -1	1	1	35.00	0.75		26.250			
	9TH MAIN DRAIN -2	1	1	18.00	0.90		16.200			
	9TH MAIN DRAIN -3	1	1	19.00	0.90		17.100			
	9TH MAIN DRAIN -4	1	1	17.00	0.90		15.300			
	9TH MAIN DRAIN -5	1	1	21.00	0.90		18.900			
	9TH MAIN DRAIN -1ST CROSS									
	RS	1	1	42.00	0.75		31.500			
	LS	1	1	42.00	0.90		37.800			
	9TH MAIN DRAIN -2ND CROSS									
	RS	1	1	39.00	0.75		29.250			
	LS	1	1	39.00	0.75		29.250			
	9TH MAIN DRAIN -3RD CROSS									
	RS	1	1	36.00	0.75		27.000			
	LS	1	1	36.00	0.75		27.000			
	9TH MAIN DRAIN -4TH CROSS									
	RS	1	1	40.00	0.75		30.000			
	9TH MAIN DRAIN -5TH CROSS									
	RS	1	1	43.00	0.75		32.250			
	LS	1	1	43.00	0.75		32.250			
	9TH MAIN DRAIN -6TH CROSS									
	RS	1	1	38.00	0.75		28.500			
	LS	1	1	38.00	0.45		17.100			
	Total Qty						500.100	500.100	Cum	

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Assistant Engineer-
14 20/5/20

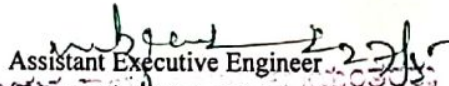
EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Assistant Executive Engineer 28/5/20
T. Dasarahalli Sub-Division
BBMP
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BOQ Item No	Description Of Item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
				Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11
measurement continued on:- 27/5/20									
8	Removing and resetting of footpath slab								
	12TH MAIN	2	1	36.50	0.60		43.800		
	LINK ROAD 3 LS	2	1	46.00	0.60		55.200		
	LINK ROAD 4 LS	2	1	30.00	0.60		36.000		
	Total Qty						135.000	135.000	Cum
9	KSRB 15.2.2 Providing ruled pointing to stone slab pavements with cement mortar 1:3, 20mm deep, after raking joints , including cost of materials, labour, curing complete as per specifications.								
	12TH MAIN	2	1	36.50	0.60		43.800		
	Total Qty						43.800	43.800	Cum
10	KSRB 5-8.1 : Providing one line dressing to granite stone slab / granite stone masonry as per specifications								
	LINK ROAD 3 LS	2	1	46.00	0.60		55.200		
	LINK ROAD 4 LS	2	1	30.00	0.60		36.000		
	Total Qty						91.200	91.200	Cum


 Assistant Engineer-
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 EXECUTIVE ENGINEER-4
 KRIDL, BBMP DIVISION
 BENGALURU-550 010


 Assistant Executive Engineer
 Dasarahalli Sub- Division
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BOQ Item No	Description Of Item of work	Nos		Measurements				Sub Qty	Total Qty	Unit
				Length	Breath		Depth			
1	3	4	5	6	7		8	9	10	11
measurement continued on:- 29/5/20										
11	Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601-do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver.									
	CC ROAD									
	9TH MAIN ROAD	1		19.00	4.15	+	4.60	0.150	12.469	
					2					
		1		30.00	4.60	+	3.70	0.150	18.675	
					2					
		1		30.00	3.70	+	3.70	0.150	16.650	
					2					
		1		30.00	3.70	+	3.50	0.150	16.200	
					2					
		1		27.60	3.00	+	3.30	0.150	13.041	
					2					
	9TH MAIN ROAD-1ST CROSS R/S	1		42.00	2.60	+	2.00	0.150	14.490	
					2					
	9TH MAIN ROAD-2ND CROSS R/S	1		39.00	2.50	+	2.30	0.150	14.040	
					2					
	9TH MAIN ROAD-3RD CROSS R/S	1		36.00	2.80	+	2.90	0.150	15.390	
					2					
	9TH MAIN ROAD-4TH CROSS R/S	1		40.00	3.50	+	2.95	0.150	19.350	
					2					
	9TH MAIN ROAD-5TH CROSS R/S	1		43.00	2.45	+	2.50	0.150	15.964	
					2					
	9TH MAIN ROAD-6TH CROSS R/S	1		38.00	2.90	+	2.00	0.150	13.965	
					2					
	LINK ROAD-1	1		30.00	4.20	+	4.80	0.150	20.250	
					2					
		1		30.00	4.80	+	3.90	0.150	19.575	
					2					
		1		38.00	3.90	+	4.15	0.150	22.943	
					2					
	LINK ROAD-2	1		30.00	4.40	+	4.45	0.150	19.913	
					2					
		1		30.00	4.45	+	4.45	0.150	20.025	
					2					
		1		34.00	4.45	+	4.45	0.150	22.695	
					2					
	LINK ROAD-3	1		33.50	5.40	+	5.20	0.150	26.633	
					2					

BOQ Item No	Description Of Item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
				Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11
				Total Qty			322.266	322.266	Cum

Assistant Engineer

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29/8/20

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Assistant Executive Engineer

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BOQ Item No	Description Of item of work	Nos		Measurements				Sub Qty	Total Qty	Unit
				Length	Breath		Depth			
1	3	4	5	6	7		8	9	10	11
measurement continued on:- 4/6/20										
12	Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications									
	CC ROAD									
	9TH MAIN ROAD	1		19.00	4.15	+	4.60	0.150	12.469	
					2					
		1		30.00	4.60	+	3.70	0.150	18.675	
					2					
		1		30.00	3.70	+	3.70	0.150	16.650	
					2					
		1		30.00	3.70	+	3.50	0.150	16.200	
					2					
		1		27.60	3.00	+	3.30	0.150	13.041	
					2					
	9TH MAIN ROAD-1ST CROSS R/S	1		42.00	2.60	+	2.00	0.150	14.490	
					2					
	9TH MAIN ROAD-2ND CROSS R/S	1		39.00	2.50	+	2.30	0.150	14.040	
					2					
	9TH MAIN ROAD-3RD CROSS R/S	1		36.00	2.80	+	2.90	0.150	15.390	
					2					
	9TH MAIN ROAD-4TH CROSS R/S	1		40.00	3.50	+	2.95	0.150	19.350	
					2					
	9TH MAIN ROAD-5TH CROSS R/S	1		43.00	2.45	+	2.50	0.150	15.964	
					2					
	9TH MAIN ROAD-6TH CROSS R/S	1		38.00	2.90	+	2.00	0.150	13.965	
					2					
	LINK ROAD-1	1		30.00	4.20	+	4.80	0.150	20.250	
					2					
		1		30.00	4.80	+	3.90	0.150	19.575	
					2					
		1		38.00	3.90	+	4.15	0.150	22.943	
					2					
	LINK ROAD-2	1		30.00	4.40	+	4.45	0.150	19.913	
					2					
		1		30.00	4.45	+	4.45	0.150	20.025	
					2					
		1		34.00	4.45	+	4.45	0.150	22.695	
					2					
	LINK ROAD-3	1		33.50	5.40	+	5.20	0.150	26.633	
					2					
	Total Qty							322.266	322.266	Cum

Assistant Engineer-14

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Assistant Executive Engineer

BBMP, Dasarahalli Sub-Division

BBMP, Dasarahalli Sub-Division

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BOQ Item No	Description Of Item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
				Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11

measurement continued on:- 10/6/20

13	Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30, with 25mm and down size graded granite metal coarse aggregates and fine aggregates, with superplasticiser @3lts conforming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rammers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)								
	CC ROAD								
	9TH MAIN ROAD	1	19.00	4.15	+	4.60	0.150	12.469	
				2					
		1	30.00	4.60	+	3.70	0.150	18.675	
				2					
		1	30.00	3.70	+	3.70	0.150	16.650	
				2					
		1	30.00	3.70	+	3.50	0.150	16.200	
				2					
		1	27.60	3.00	+	3.30	0.150	13.041	
				2					
	9TH MAIN ROAD-1ST CROSS R/S	1	42.00	2.60	+	2.00	0.150	14.490	
				2					
	9TH MAIN ROAD-2ND CROSS R/S	1	39.00	2.50	+	2.30	0.150	14.040	
				2					
	9TH MAIN ROAD-3RD CROSS R/S	1	36.00	2.80	+	2.90	0.150	15.390	
				2					
	9TH MAIN ROAD-4TH CROSS R/S	1	40.00	3.50	+	2.95	0.150	19.350	
				2					
	9TH MAIN ROAD-5TH CROSS R/S	1	43.00	2.45	+	2.50	0.150	15.964	
				2					
	9TH MAIN ROAD-6TH CROSS R/S	1	38.00	2.90	+	2.00	0.150	13.965	
				2					
	LINK ROAD-1	1	30.00	4.20	+	4.80	0.150	20.250	
				2					
		1	30.00	4.80	+	3.90	0.150	19.575	
				2					
		1	38.00	3.90	+	4.15	0.150	22.943	
				2					
	LINK ROAD-2	1	30.00	4.40	+	4.45	0.150	19.913	
				2					
		1	30.00	4.45	+	4.45	0.150	20.025	
				2					
		1	34.00	4.45	+	4.45	0.150	22.695	

14 -
EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

19. 06.2020
660073

BOQ Item No	Description Of Item of work	Nos		Measurements							
				Length	Breath			Depth	Sub Qty	Total Qty	Unit
1	3	4	5	6	7			8	9	10	11
					2						
	LINK ROAD-3	1		33.50	5.40	+	5.20	0.150	26.633		
					2						
		Total Qty						322.266	322.266	Cum	

CRP
Assistant Engineer-10/6/20
14

m. s. k. s.
Assistant Executive Engineer 10/6
T Dasarahalli Sub- Division
ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ, ಬಿಬಿಎಂಪಿ, ಅಭಿಯಂತರರು
ಇ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಜಿ.ಜಿ.ಎಂ.ಪಿ.
ಬೆಂಗಳೂರು-560073.

[Signature]
EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

BOQ Item No	Description Of Item of work	Nos		Measurements				Sub Qty	Total Qty	Unit
				Length	Breath		Depth			
1	3	4	5	6	7		8	9	10	11
measurement continued on:- 10/6/20										
14	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift									
	CC ROAD									
	9TH MAIN ROAD	1	19.00	4.15	+	4.60	0.150	83.125		
				2						
		1	30.00	4.60	+	3.70	0.150	124.500		
				2						
		1	30.00	3.70	+	3.70	0.150	111.000		
				2						
		1	30.00	3.70	+	3.50	0.150	108.000		
				2						
		1	27.60	3.00	+	3.30	0.150	86.940		
				2						
	9TH MAIN ROAD-1ST CROSS R/S	1	42.00	2.60	+	2.00	0.150	96.600		
				2						
	9TH MAIN ROAD-2ND CROSS R/S	1	39.00	2.50	+	2.30	0.150	93.600		
				2						
	9TH MAIN ROAD-3RD CROSS R/S	1	36.00	2.80	+	2.90	0.150	102.600		
				2						
	9TH MAIN ROAD-4TH CROSS R/S	1	40.00	3.50	+	2.95	0.150	129.000		
				2						
	9TH MAIN ROAD-5TH CROSS R/S	1	43.00	2.45	+	2.50	0.150	106.425		
				2						
	9TH MAIN ROAD-6TH CROSS R/S	1	38.00	2.90	+	2.00	0.150	93.100		
				2						
	LINK ROAD-1	1	30.00	4.20	+	4.80	0.150	135.000		
				2						
		1	30.00	4.80	+	3.90	0.150	130.500		
				2						
		1	38.00	3.90	+	4.15	0.150	152.950		
				2						
	LINK ROAD-2	1	30.00	4.40	+	4.45	0.150	132.750		
				2						
		1	30.00	4.45	+	4.45	0.150	133.500		
				2						
		1	34.00	4.45	+	4.45	0.150	151.300		
				2						
	LINK ROAD-3	1	33.50	5.40	+	5.20	0.150	177.550		
				2						
				Total Qty				2148.440	2148.440	Cum

Assistant Engineer-14

Assistant Executive Engineer
T Dasarahalli Sub- Division

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

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ಬಿ ದಾಸರಾಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು, ಕೆ.ಆರ್.ನಗರ.
ಫೋನ್-2660073.

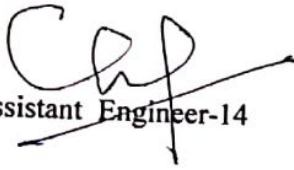
Name of Work : IMPROVEMENT OF CC ROADS, DRAINS AND OTHER WORKS AT GOWDIKE
HOOLA (JODIDHAR NARASIMHAIAH LAYOUT) IN WARD NO 14

ROYALTY RECOVERY STATEMENT

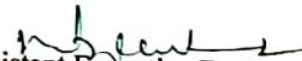
Sl. No.	Description of item	Unit	Jelly/Size stone			Sand/Gravel		
			Qty	Const	Qty	Qty	Const	Qty
1	DLC	m3	322.266	0.86	277.15	322.27	0.58	186.91
2	WMM	m ³	322.27	1.32	425.39112		-	
3	PCC 1:3:6	m3	110.121	0.69	75.98	110.12	0.56	61.67
4	CC M-30	m3	322.266	0.69	222.36	322.27	0.46	148.24
	TOTAL				723.74			209.91

ABSTRACT

		Unit	Qty	Rate	Amount
1	Jelly	Cum	723.74	Rs 108.00 / m ³	78163.72
2	Sand	Cum	209.91	Rs 103.00 / m ³	21620.74
	TOTAL				99784.46


Assistant Engineer-14


EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010


Assistant Executive Engineer
ಸಹಾಯಕಿ ಉಪ-ವಿಭಾಗೀಯಾಂಗಿಕರರು
ಬಿ. ರಾಜರವಳ್ಳಿ, ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಪಿ, ಜಿ.ಬಿ.ಎಂ.ಪಿ.
ಬೆಂಗಳೂರು-560073.

WALL THICKNESS CALCULATION (UNITS-METERS)

DRAIN NO	STARTING POINT WALL THICKNESS		ENDING POINT WALL THICKNESS		AVD OF 4 WALLS THICKNESS (1+2+3+4) / 4
	SPW T1 1	SPW T2 2	EPTW T1 3	EPTW T2 4	
MD1	0.15	0.15	0.15	0.2	0.163
MD2	0.15	0.3	0.15	0.2	0.200
MD3	0.15	0.2	0.15	0.15	0.163
R/S MD4	0.15	0.15	0.12	0.12	0.135
MD5	0.15	0.15	0.15	0.15	0.150
MD6	0.15	0.12	0.12	0.12	0.128

WALL DEPTH CALCULATION(UNITS-METERS)

DRAIN NO	STARTING POINT WALL DEPTH		ENDING POINT WALL DEPTH		AVD OF 4 WALLS DEPTHS (1+2+3+4) / 4
	SPW D1 1	SPW D2 2	EPTW D1 3	EPTW D2 4	
MD1	0.6	0.6	0.6	0.6	0.600
MD2	0.6	0.6	0.6	0.6	0.600
MD3	0.6	0.6	0.6	0.6	0.600
R/S MD4	0.6	0.6	0.6	0.6	0.600
MD5	0.7	0.7	0.6	0.6	0.650
MD6	0.6	0.6	0.45	0.45	0.525

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EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

Signature
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಧೀಕ್ಷಕರು
ಇ. ದಾಸರಾಜ್ ಅವರ ವಿಭಾಗ
ಬಾಣ್ಸೇರಿ, ಬೆಂಗಳೂರು-560 073.
ಬೆಂಗಳೂರು-560073.

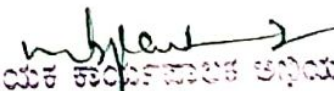
WALL THICKNESS CALCULATION (UNITS-METERS)

DRAIN NO	STARTING POINT WALL THICKNESS		ENDING POINT WALL THICKNESS		AVD OF 4 WALLS THICKNESS
	SPW T1	SPW T2	EPTW T1	EPTW T2	
	1	2	3	4	$(1+2+3+4) / 4$
MD1	0.15	0.15	0.15	0.15	0.150
MD2	0.15	0.15	0.15	0.15	0.150
L/S MD3	0.12	0.3	0.12	0.15	0.173
MD4	0.2	0.15	0.15	0.2	0.175
MD5	0.15	0.2	0.15	0.2	0.175

WALL DEPTH CALCULATION(UNITS-METERS)

DRAIN NO	STARTING POINT WALL DEPTH		ENDING POINT WALL DEPTH		AVD OF 4 WALLS DEPTHS
	SPW D1	SPW D2	EPTW D1	EPTW D2	
	1	2	3	4	$(1+2+3+4) / 4$
MD1	0.6	0.6	0.6	0.6	0.600
MD2	0.6	0.6	0.6	0.6	0.600
L/S MD3	0.6	0.6	0.6	0.6	0.600
MD4	0.65	0.6	0.7	0.7	0.663
MD5	0.6	0.6	0.6	0.6	0.600

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 ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
 ಬಿ. ದಾಸರಹಳ್ಳಿ ರಸ್ತೆ ವಿಭಾಗ
 ಬಾಗಲಕೋಟೆ, ಜಿ.ಜಿ.ಎಂ.ಪಿ.
 ಬೆಂಗಳೂರು 560073.


 EXECUTIVE ENGINEER-4
 KRIDL, BBMP DIVISION
 BENGALURU-560 010

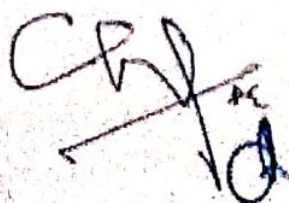
WALL THICKNESS CALCULATION (UNITS-METERS)

DRAIN NO		STARTING POINT WALL THICKNESS		ENDING POINT WALL THICKNESS		AVD OF 4 WALLS THICKNESS (1+2+3+4) / 4
		SPW T1	SPW T2	EPTW T1	EPTW T2	
		1	2	3	4	
R/S	1ST CROSS	0.15	0.15	0.15	0.15	0.150
L/S	1ST CROSS	0.2	0.2	0.2	0.15	0.188
R/S	2NDCROSS	0.12	0.2	0.1	0.1	0.130
L/S	2NDCROSS	0.3	0.2	0.15	0.1	0.188
R/S	3RDCROSS	0.1	0.1	0.1	0.1	0.100
L/S	3RDCROSS	0.12	0.12	0.1	0.1	0.110
R/S	4THCROSS	0.1	0.2	0.1	0.2	0.150
R/S	5THCROSS	0.15	0.2	0.15	0.15	0.163
L/S	5THCROSS	0.1	0.1	0.15	0.12	0.118
R/S	6THCROSS	0.1	0.1	0.1	0.1	0.100
L/S	6THCROSS	0.1	0.1	0.1	0.1	0.100

WALL DEPTH CALCULATION(UNITS-METERS)

DRAIN NO		STARTING POINT WALL DEPTH		ENDING POINT WALL DEPTH		AVD OF 4 WALLS DEPTHS (1+2+3+4) / 4
		SPW D1	SPW D2	EPTW D1	EPTW D2	
		1	2	3	4	
R/S	1ST CROSS	0.6	0.6	0.6	0.6	0.600
L/S	1ST CROSS	0.6	0.6	0.6	0.6	0.600
R/S	2NDCROSS	0.75	0.75	0.8	0.8	0.775
L/S	2NDCROSS	0.6	0.6	0.6	0.6	0.600
R/S	3RDCROSS	0.7	0.7	0.75	0.75	0.725
L/S	3RDCROSS	0.6	0.6	0.7	0.7	0.650
R/S	4THCROSS	0.8	0.8	0.95	0.95	0.875
R/S	5THCROSS	0.55	0.55	0.5	0.5	0.525
L/S	5THCROSS	0.45	0.45	0.6	0.6	0.525
R/S	6THCROSS	0.5	0.5	0.5	0.5	0.500
L/S	6THCROSS	0.45	0.45	0.45	0.45	0.450


 PROJECT ENGINEER
 IN CHARGE
 BANGALORE
 10/10/2020


 PC


 EXECUTIVE ENGINEER-4
 KRIDL, B&P DIVISION
 BENGALURU-560 010